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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel)	:	Seismic Microzonation of Semarang, Indonesia, Based on Probabilistic and Deterministic Combination Analysis		
Jumlah Penulis	:	4 orang		
Status Pengusul	:	penulis ke-1		
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		f. Alamat web jurnal	:	http://www.geomatejournal.com/articles/2019/16/57
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		g. Terindex	:	Scopus

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- [ ] Jurnal Ilmiah Nasional Terakreditasi
- [ ] Jurnal Ilmiah Nasional Tidak Terakreditasi

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	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi prosiding (10%)	4	4	4
b. Ruang lingkup dan kedalaman pembahasan (30%)	10	11	10.5
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	10	11	10.5
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	11	12	11.5
Total = (100%)	**35**	38	36.5
Nilai Pengusul = (60% x 36,5) = ... 21.9			

Semarang,

Reviewer 2

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Reviewer 1

Prof. Dr. Ir. Han Ay Lie, M.Eng
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Hasil Penilaian *Peer Review* :

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	Internasional [40]	Nasional Terakreditasi [ ]	Nasional Tidak Terakreditasi [ ]	
a. Kelengkapan unsur isi jurnal (10%)	4			4
b. Ruang lingkup dan kedalaman pembahasan (30%)	12			10
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	12			10
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12			11
Total = (100%)	**40**			**35**
Nilai Pengusul = 0.6 x 35= 21				

Catatan Penilaian artikel oleh Reviewer :

1. **Kesesuaian dan kelengkapan unsur isi jurnal:**
   Jurnal Geomate memiliki editorial board yang jelas, berasal dari universitas terpandang (Mie University), daftar isi, pustaka, informasi index, ISSN ada. Author mewakili rancah internasional. Fokus jurnal pada aspek geologi dan material geologi, sehingga sesua dengan isi paper ini
2. **Ruang lingkup dan kedalaman pembahasan:**
   Tulisan ini membahas tentang pembaharuan peta percepatan gerakan tanah di batuan di wilayah Kota Semarang akibat 26 jalur sesar aktif baru dan 2 jalur subduksi. Hasilnya kemudian dibandingkan dengan hasil penelitian tahun 2012 akibat 5 jalur sesar aktif dan 2 jalur subduksi. Peta percepatan dihitung pada 288 titik pengeboran di Kota Semarang.
3. **Kecukupan dan kemutakhiran data/informasi dan metodologi:**
   Penelitian dilakukan dengan menggunakan data gempa tahun 2017. Analisis dilkakukan dengan menggabungkan metode probabilistik, deterministik, probabilitas kehancuran bangunan dan metode aproksimasi pembobotan terhadap 4 data terdekat yg telah disampaikan pada analisis probabilitas hazard gempa nasional tahun 2017. Pada umumnya perhitungan disetiap titik pengeboran menggunakan satu data hazard gempa nasional terdekat.
4. **Kelengkapan unsur dan kualitas terbitan:**
   Jurnal memiliki index Scopus dengan Q3, SJR=0.302. Jurnal tersebut terindex sejak 2011 dan tak pernah diskontinu selama itu. Laman jurnal menampilkan semua data informasi tentang jurnal tersebut. Termasuk jurnal open akses dan terbit bulanan

Semarang, 15 Juli 2019
Reviewer 1

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b. Ruang lingkup dan kedalaman pembahasan (30%)	12			11
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	12			11
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12			12
Total = (100%)	**40**			38
Nilai Pengusul = 60% x = 22,8				

Catatan Penilaian artikel oleh Reviewer :

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   UNSUR ISI JURNAL SESUAI DAN LENGKAP
2. **Ruang lingkup dan kedalaman pembahasan:**
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3. **Kecukupan dan kemutakhiran data/informasi dan metodologi:**
   2 DARI 10 PUSTAKA TERSEBUT 10 TAHUN TERAKHIR MEMPERBAHARUI PETA SEISMIK SEMARANG.
4. **Kelengkapan unsur dan kualitas terbitan:**
   PENERBIT TERINDEK SCOPUS DENGAN SJR 0.3 Q3, INDEX SIMILARITY TERSEBUT 9%.

Semarang,
Reviewer 2

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International Journal of GEOMATE
Volume 16, Issue 57, 2019, Pages 176-182

Seismic microzonation of Semarang, Indonesia, based on probabilistic and deterministic combination analysis (Article) (Open Access)

Partono, W.[a], Irsyam, M.[b], Sengara, I.W.[b], Asrurifak, M.[c]

[a]Faculty of Engineering, Diponegoro University, Indonesia
[b]Faculty of Civil and Environmental Engineering, Bandung Institute of Technology, Indonesia
[c]Research Center for Disaster Mitigation, Bandung Institute of Technology, Indonesia

Abstract

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One of the most important pieces of information obtained from the new Indonesian seismic hazard maps completed in 2017 was the identification of a fault that crosses the city of Semarang. This fault can be categorized as a new dangerous seismic source and should be taken into account in future seismic mitigation planning of this city. This paper describes the seismic microzonation of Semarang carried out via a combination of probabilistic and deterministic hazard analysis. The purpose of this research was to develop a risk map for Semarang based on one percent building collapse in 50 years. The analysis was performed using the same method employed in developing risk targeted Maximum Considered Earthquake (MCE_R) maps in 2012, with an improved beta (logarithmic standard deviation) value of 0.65 and adjusted direction factors of 1.1 and 1.3 for short- and long-period spectral acceleration, respectively. Whereas the 2012 maximum MCE_R spectral acceleration was distributed in the north-east of the study area due to the presence of Lasem fault, the 2018 maximum is located in the north-western part of the city as a result of the newly developed Semarang fault. © Int. J. of GEOMATE.

Author keywords

Deterministic Fault MCER Probabilistic Seismic microzonation

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